

FLAME-RETARDANT RESIN COMPOSITION

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Abstract

PURPOSE:To ensure the prevention of dripping during combustion and to prevent harmful gases to be emitted on fire, by blending a specified olefin resin with a hydrated metal oxide having a coupling agent-treated surface, a red phosphorus flame retarder or an org. phosphine derivative and an inorg. filler in a specified ratio.

CONSTITUTION:This flame-retardant resin compsn. is formed by blending 100pts. wt. olefin resin (A), obtd. by mixing 5-95wt% polyolefin resin with 5-95wt% at least one silane-grafted polymer obtd. by grafting a silane onto a polyolefin resin, with 50-200pts.wt. hydrated metal oxide (B) having a surface treated with at least one titanate or silane coupling agent, 2-50pts.wt. red phosphorus flame retarder or org. phosphine derivative or mixture of two or more of them (C) and 1-20pts.wt. at least one inorg. filler (D).

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